ABSTRACT

Titaniums having excellent impact resistance are manufactured by methods that attain good cold workability by controlling the concentrations of oxygen, nitrogen, carbon and iron contained in ordinary pure titaniums in the desired range, applying combinations of preliminary working and annealing before or during the forming process, and controlling the Vickers hardness in the cross-sectional area to the desired range according to the concentrations, without adding aluminum, molybdenum, vanadium or other alloying elements.

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